ANALISIS KOMPONEN SERAT PAKAN BERBASIS JERAMI PADI YANG DISUPLEMENTASI DAUN GAMAL

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ABSTRACT

The purpose of this research was to optimalization nutritive values of rice straw for ruminant by breaking the bonds of lignocellulose to increase the Access of rumen microbes in digesting cellulose as energy source. Used was the isolation of lactic acid bacterial (*Lactobacillus sp*) and cellulolytic bacterial (*Ruminococcus albus*) from the ruminal liquid of goat and lignolytic microbes (*white rot fungi*) was obtained from palm oil waste and proliferated at compos media.

It was to test the inoculum of microbes degrading the fibre fraction of rice straw. Lactic acid, cellulolytic, and lignolytic microbes were used to ferment alkali treated rice straw added with urea and tapioca flour. The experiment was carried out to completely randomised design. Other nutrients were analyzed using Van Soest analysis to determine of crude fiber contents of feeding. It is concluded from this experiment that treatment combination of fermented rice straw 70% and *Gliricidia maculata* 30% had significant effect lower on NDF and increase levels of ADF contents of feeding.

Key words: *Gliricidia maculata, rice straw, cellulolytic, lignolytic and lactic acid microbes.*